

June 8, 2005
ERI 203403.W09

Ms. Jennifer C. Sedlachek
ExxonMobil Refining & Supply-Global Remediation
4096 Piedmont Avenue #194
Oakland, California 94611

Subject: Addendum to Work Plan for Shallow Soil and Groundwater Investigation, Former Exxon Service Station 7-0276, 1400 Farmers Lane, Santa Rosa, California.

Ms. Sedlachek:

At the request of Exxon Mobil Corporation (Exxon Mobil), Environmental Resolutions, Inc. (ERI) is submitting this addendum to the *Work Plan for Shallow Soil and Groundwater Investigation*, dated April 20, 2005 (Work Plan). In the Work Plan, ERI proposed advancing seven on-site borings (B19 through B25) and four off-site borings (B26 through B29) to 5 feet below ground surface (bgs) using hand tools, and collecting soil and groundwater samples from the borings to delineate the extent of petroleum hydrocarbons in soil and groundwater downgradient of the site. At the request of the California Regional Water Quality Control Board, North Coast Region (Regional Board), in a telephone conversation on June 7, 2005, ERI is submitting this addendum to revise the work scope for the off-site portion of the proposed investigation.

During off-site assessment activities in October 2001, total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), and benzene were reported at concentrations of 61 milligrams per kilogram (mg/kg), 350 mg/kg, and 1.1 mg/kg, respectively, in the soil sample collected from boring GP5 at 5 feet bgs. Proposed borings B26 through B29 are located approximately 10 feet from boring GP5. Boring locations and analytical results for soil samples collected during previous investigations and locations of proposed borings B19 through B29 are provided in Attachment A. Because petroleum hydrocarbons were detected in the soil sample collected at 5 feet bgs in boring GP5, the Regional Board requested ERI to collect soil samples at depths greater than 5 feet bgs in off-site borings B26 through B29 to vertically delineate the extent of petroleum hydrocarbons in soil downgradient of the site.

ERI concurs that deeper soil sampling is needed to vertically delineate the extent of residual hydrocarbons in the off-site borings. Borings B26 through B29 will be advanced to a total depth of 10 feet bgs using direct-push equipment. Boring locations will be hand-augered to 4 feet bgs to ensure that no obstruction will be in the path of the push rods. Soil samples will be collected continuously from the base of the hand-augered hole to total depth. Soil samples will be collected for analysis at the capillary fringe, total depth, and at intervals showing evidence of residual hydrocarbons such as odor or discoloration. Analytical results of submerged soil samples will be evaluated; however, laboratory analysis cannot distinguish detections originating from hydrocarbons adsorbed to soil and hydrocarbons dissolved in groundwater.

The remaining borings (on-site borings B19 through B25) will be advanced to a total depth of 5 feet bgs using hand tools, as proposed in the Work Plan.

DOCUMENT DISTRIBUTION

ERI recommends that a signed copy of this Addendum to Work Plan be forwarded to the following:

Mr. Jim Tischler
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

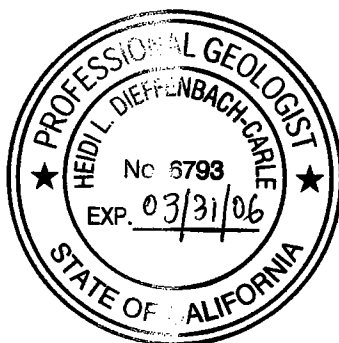
Mr. Paul Lowenthal
City of Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404

Mr. Joseph A. Aldridge
Valero Energy Corporation
685 West Third Street
Hanford, California 93230

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Exxon Mobil, and any reliance on this report by third parties shall be at such party's sole risk.

Please contact Ms. Paula Sime, ERI's project manager for this site, at (707) 766-2000 with any questions regarding this Addendum.



Sincerely,
Environmental Resolutions, Inc.

Paula Sime
Project Manager

Heidi Dieffenbach-Carle
P.G. 4313

Attachment: Attachment A: Soil Boring Maps

ATTACHMENT A
SOIL BORING MAPS



HIGHWAY 12
OFF-RAMP

FARMERS LANE

HOEN FRONTAGE ROAD

TOWNVIEW LANE

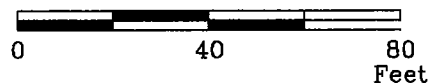
COMMERCIAL
COMPLEX

PUMP
ISLANDS

BUILDING

UST
UST
UST

APPROXIMATE SCALE



FN 20340004a

SOURCE: Modified
from maps provided by
Morrow Surveying



GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- MW18
● Groundwater Monitoring Well
GP8
⊕ Geoprobe
PL6
● Product Line Boring

- RW1
⊕ Recovery Well
B18
● Soil Boring
B29
□ Proposed Hand-Auger

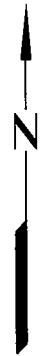
- TP2
⊕ Tank Pit Well

PROJECT NO.

2034

ATTACHMENT

A



HIGHWAY 12
OFF-RAMP

FARMERS LANE

HOEN FRONTAGE ROAD

TOWNVIEW LANE

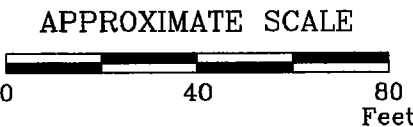
COMMERCIAL COMPLEX

PUMP ISLANDS

BOILING

Analyte Concentrations in mg/Kg	
12/5/90	Date Sampled
3 FT.	Sample Depth
3,300	Total Petroleum Hydrocarbons as diesel
1,300	Total Petroleum Hydrocarbons as gasoline
9.3	Benzene
NS	Methyl Tertiary Butyl Ether (EPA Method 8260B)
<	Less Than the Stated Laboratory Reporting Limit
ug/L	Micrograms per Liter
NS	Not sampled

Analyte Concentrations in mg/Kg	
4 FT.	Sample Depth
1,000	Total Petroleum Hydrocarbons
ND	Benzene, Toluene, Ethyl Benzene and Xylenes combined.
ND	Not detected at or above laboratory reporting limit.



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RESIDUAL HYDROCARBON CONCENTRATIONS
FORMER
EXXON SERVICE STATION 7-0276
1400 Farmers Lane
Santa Rosa, California

EXPLANATION

- | | | | | | |
|------|-----------------------------|-----|---------------------|-----|---------------|
| MW18 | Groundwater Monitoring Well | RW1 | Recovery Well | TP2 | Tank Pit Well |
| GP8 | Geoprobe | B18 | Soil Boring | | |
| | | PL6 | Product Line Boring | | |

PROJECT NO.
2034
ATTACHMENT
A